

133 310. (Amended) A fuel cell electrode comprising a support comprising a deposit disposed thereon, said deposit comprising a catalytically effective load of platinum, and comprising an electrocatalytic active area at least in part comprising rod-shaped structures of said platinum. wherein said support has a surface area, and said deposit covers about 300 cm² or more of said surface area, wherein, at a cell potential of about 0.6 V, a membrane electrode assembly containing said fuel cell electrode as a half cell operating as a cathode yields a power output of about 800 mA cm⁻² or greater.

REMARKS

35 U.S.C. §112, Second Paragraph

The examiner rejected claims 195-200, 209-216, 218-223, 226-227, 229-230, and 232-346 under 35 U.S.C. §112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which the applicant regards as the invention.

The examiner rejected claims 195-200, 233, 272, and 310, stating that the claims are unclear for the abbreviation "MEA." Claims 195-200, 233, 272, and 310 have been amended to include "membrane electrode assembly" in place of the abbreviation "MEA." See specification, page 22, line 2. Claims 195-200, 233, 272, and 310 are now in condition for allowance.

The examiner rejected claims 209-216, 218-232, 234-271, 273-309, and 311-338 stating they depend from rejected claims 195, 233, 272, and 310. Claims 195, 233, 272, and 310 have been amended, as stated above. Thus, claims 209-216, 218-232, 234-271, 273-309, and 311-338 are now in condition for allowance.

CONCLUSION

For all of the foregoing reasons, Applicants respectfully request that the examiner withdraw the rejections and allow all of the pending claims.

Respectfully submitted,



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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In re Application of: § Group Art Unit: 1745
 Dearnaley, et al §
 § Examiner: Maples, John S.
Serial No.: 09/509,849 §
 §
Filed: September 18, 2000 § Atty Docket: GORE/MI/192A/US

For: A Method of Depositing an ElectroCatalyst and Electrodes Formed
 by Such Method

MARKED UP COPY OF CLAIMS ACCOMPANYING
RESPONSE TO FINAL OFFICE ACTION

195. (Amended) The fuel cell electrode of claim 187 wherein, at a cell potential of about 0.6 V, [an MEA] a membrane electrode assembly containing said fuel cell electrode as a half cell operating as a cathode yields a power output of about 800 mA cm⁻² or greater.

196. (Amended) The fuel cell electrode of claim 190 wherein, at a cell potential of about 0.6 V, [an MEA] a membrane electrode assembly containing said fuel cell electrode as a half cell operating as a cathode yields a power output of about 800 mA cm⁻² or greater.

197. (Amended) The fuel cell electrode of claim 191 wherein, at a cell potential of about 0.6 V, [an MEA] a membrane electrode assembly containing said fuel cell electrode as a half cell operating as a cathode yields a power output of about 800 mA cm⁻² or greater.

198. (Amended) The fuel cell electrode of claim 192 wherein, at a cell potential of about 0.6 V, [an MEA] a membrane electrode assembly containing said fuel cell electrode as a half cell operating as a cathode yields a power output of about 800 mA cm⁻² or greater.

199. (Amended) The fuel cell electrode of claim 193 wherein, at a cell potential of about 0.6 V, [an MEA] a membrane electrode assembly containing said fuel cell electrode as a half cell operating as a cathode yields a power output of about 800 mA cm⁻² or greater.

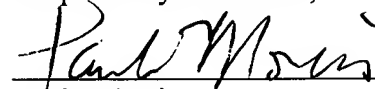
200. (Amended) The fuel cell electrode of claim 194 wherein, at a cell potential of about 0.6 V, [an MEA] a membrane electrode assembly containing said fuel cell electrode as a half cell operating as a cathode yields a power output of about 800 mA cm⁻² or greater.

233. (Amended) A fuel cell electrode comprising a support comprising a deposit disposed thereon, said deposit comprising a catalytically effective load of an electrocatalyst comprising platinum and comprising an electrocatalytic active area at least in part comprising rod-shaped structures of said electrocatalyst, wherein at a cell potential of about 0.6 V, [an MEA] a membrane electrode assembly containing said fuel cell electrode as a half cell operating as a cathode yields a power output of about 800 mA cm^{-2} or greater.

272. (Amended) A fuel cell electrode comprising a support comprising a deposit disposed thereon, said deposit comprising a catalytically effective load of an electrocatalyst comprising less than about 0.2 mg/cm^2 platinum, and comprising an electrocatalytic active area at least in part comprising rod-shaped structures of said electrocatalyst, wherein said support has a surface area, and said deposit covers about 300 cm^2 or more of said surface area, wherein, at a cell potential of about 0.6 V, [an MEA] a membrane electrode assembly containing said fuel cell electrode as a half cell operating as a cathode yields a power output of about 800 mA cm^{-2} or greater.

310. (Amended) A fuel cell electrode comprising a support comprising a deposit disposed thereon, said deposit comprising a catalytically effective load of platinum, and comprising an electrocatalytic active area at least in part comprising rod-shaped structures of said platinum. wherein said support has a surface area, and said deposit covers about 300 cm^2 or more of said surface area, wherein, at a cell potential of about 0.6 V, [an MEA] a membrane electrode assembly containing said fuel cell electrode as a half cell operating as a cathode yields a power output of about 800 mA cm^{-2} or greater.

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